



TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and § 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	199-0038 - TV
Client/ Sequence /Town/Premises Numbers	8003/1/199/3
Original Permit Issue Date	January 29, 2003
Modified Permit Issue Date	August 15, 2006
Expiration Date	January 29, 2008

Corporation:

Dominion Nuclear Connecticut, Incorporated

Premises Location:

Millstone Power Station, Rope Ferry Road, Waterford, Connecticut 06385

Name of Responsible Official and Title:

J. Alan Price, Millstone Site Vice President

All the following attached pages, 2 through 51 are hereby incorporated by reference into this Title V Operating Permit.

ANNE GOBIN
Gina McCarthy
Commissioner

AUGUST 15, 2006
Date

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LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
acfm	Actual cubic feet per minute
ASC	Actual Stack Concentration
BACT	Best Available Control Technology
BAM	Bureau of Air Management
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CP/OP	Construction Permit/Operating Permit
CTG	Control Technology Guideline
DEP	Department of Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emission Unit
ERC	Emission Reduction Credit
EPA	Environmental Protection Agency
FLER	Full load emission rate
GEU	Grouped Emission Unit
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSR	New Source Review
PM	Particulate Matter
ppmv	Parts per million, volumetric basis
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
RMP	Risk Management Plan
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
TOC	Total Organic Carbon
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Title V Permit

All conditions in Sections III, IV, VI and VII of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this Title V permit in accordance with the Clean Air Act, as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electric Power Generation
Primary SIC: 4911
Other SIC:

Facility Mailing Address: PO Box 128, Waterford, CT 06385-0128
Telephone Number: (860) 447-1791

B. PREMISES DESCRIPTION

Millstone Power Station (MPS), which is owned in part by Dominion Nuclear Connecticut, Incorporated, operates three nuclear power plants in Waterford, Connecticut. Each power plant consists of a nuclear reactor and a turbine-generator. The three power generating units are referred to as Unit Nos. 1, 2, and 3, and are rated at 660 Megawatts (MW), 870 MW, and 1154 MW respectively. As of June, 2000, Unit 2 and Unit 3 are in service. Unit 1 is permanently retired.

To support the safe operation and maintenance of these units, MPS also operates a number of auxiliary equipment including boilers & emergency engines, compressors, tanks and other miscellaneous equipment.

Section II: Emissions Unit Information

A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1.

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number*
EU1.4	Auxiliary Boiler for Unit 3 “B&W1” (B&W FM10-79)	None	P199-0007 and Order 8222
EU1.5	Auxiliary Boiler for Unit 3 “B&W2” (B&W FM10-79)	None	P199-0008 and Order 8222
EU2.3	Emergency Diesel Generator for Unit 2 “A” (Fairbanks Morse 38TD 1/8)	None	P199-0055 and Order 8221
EU2.4	Emergency Diesel Generator for Unit 2 “B” (Fairbanks Morse 38TD 1/8)	None	P199-0056 and Order 8221
EU2.5	Emergency Diesel Generator for Unit 3 “A” (Colt PC2)	None	P199-0009 and Order 8221
EU2.6	Emergency Diesel Generator for Unit 3 “B” (Colt PC2)	None	P199-0010 and Order 8221
EU2.7	Station Blackout Diesel Generator for Unit 3 (Electromotive)	None	P199-0017 and Order 8221
EU2.8	Emergency Engine for Unit 1 Spent Fuel Pool Cooling (Volvo)	None	None
EU2.10	Emergency Engine for Plant Security (Cummins VT1710 GS/GC)	None	None
EU2.11	Emergency Fire Pump (Atlantic Detroit Diesel)	None	None
EU2.12	Emergency Engine for Meteorological Tower (Ford)	None	None
EU2.13	Emergency Engine “EOF” (Cummins)	None	None
EU2.14	Fire School Water Pump 1	None	P199-0043
EU2.15	Fire School Water Pump 2	None	P199-0043
EU2.16	Intake Water Pump	None	P199-0044
EU3.1	Motorpool Compressor (IR185)	None	P199-0045
EU3.2	Motorpool Compressor (IR250)	None	P199-0046
EU3.5	ESF Compressor C (F3M1001f)	None	P199-0053

Section II: Emissions Unit Information

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number*
GEU3.6	Numerous Small Compressors	None	None
GEU4.1	Gasoline Storage Tanks	None	None
GEU4.3	Dilute Hydrazine Storage Tanks	None	None
GEU4.4	Dilute ETA Storage Tanks	None	None
GEU4.5	Diesel Fuel Storage Tanks	None	None
EU5.1	Fire Training Facility Mock-up	None	P199-0043
EU5.2	Air Sparging Unit for Wastewater Treatment Plant	None	None
GEU5.4	Cold Parts Cleaning Operations	None	None
GEU5.5	Steam Vents	None	None

(*) It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Permit.

Section II: Emissions Unit Information

The permittee shall be allowed to operate under the following standard operating scenarios (SOS) and alternative operating scenarios (AOS) without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises.

TABLE II.A.2: EMISSIONS UNIT IDENTIFICATION, SOS AND AOS		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
SOS1	All emissions units	All emissions units listed in Table II.A.1 are included in this SOS and shall be operated in accordance with applicable permit terms and conditions, and if not subject to permit terms and conditions, shall be operated in accordance with design specifications.
AOS1	N/A	

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

A. EMISSIONS UNITS 1.4-1.5

Table III.A: EMISSIONS UNIT 1.4-1.5 (Auxiliary Boiler for Unit 3 “B&W1&2” (B&W FM10-79)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	# 4 Fuel Oil	No more than 480 gallons per hour and 2,864,520 gallons per year for EU 1.4 and EU 1.5 (each)	Permit 199-0007 Permit 199-0008	A.1
SOS-1	NOx	No more than 0.25 lb/MMBtu	RSCA § 22a-174-22(e); Connecticut Trading Agreement and Order No. 8222	A.2
SOS-1	TSP	No more than 0.10 pounds per million Btu	RCSA § 22a-174-18(d)(1)	A.3
SOS-1	Sulfur Content	No more than 0.5 % sulfur content (dry basis)	Permit 199-0007 (EU 1.4) Permit 199-0008 (EU 1.5)	A.4
SOS-1	SOx	No more than 113.5 tons per year	Permit 199-0007 (EU 1.4) Permit 199-0008 (EU 1.5)	A.5

A.1 Number 4 Fuel Oil (EU 1.4-1.5)

A.1.1 Monitoring and Testing Requirements

The permittee shall verify Number 4 Fuel Oil usage for EUs 1.4-1.5. When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the permittee shall use a fuel flow monitor or non-resettable runtime hour meter. If non-resettable runtime hour meter is used, calculate fuel usage at the maximum fuel-firing rate specified for that unit. The permittee shall base annual fuel consumption of EUs 1.4-1.5 on any consecutive twelve (12) month time period and shall be determined by adding the current month’s fuel usage to that of the previous eleven (11) months. The Permittee shall make this calculation monthly. [RCSA § 22a-174-4(a)(1)]

Section III: Applicable Requirements and Compliance Demonstration

A.1.2 Record Keeping Requirements

The following records shall be maintained by the permittee:

- i. Monthly and annual fuel usage for EU 1.4-1.5. [Section VII.F of this permit]
- ii. The annual fuel usage shall be based on any consecutive twelve (12) month time period and shall be calculated by adding the current month's fuel usage to that of the previous eleven (11) months. [Section VII.F of this permit]

The permittee shall make and keep records as described, for a minimum of (5) years commencing on the date such records were created. [Section VII.F of this permit]

A.1.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

A.2 NO_x (EU 1.4-1.5)

A.2.1 Monitoring and Testing Requirements

- i. The permittee shall conduct emissions tests at least once every five years. Such tests shall be conducted no later than five years from the date of the last test for the subject unit or no later than five years from the date the last test for the subject unit should have been conducted, whichever is earlier. Compliance with the emission limitations of RCSA § 22a-174-22 shall be determined based on the average of three (3) one-hour tests, each performed over a consecutive 60-minute period and performed in accordance with RCSA § 22a-174-5. [RCSA § 22a-174-22(k)(1) and paragraph C.7 of Trading Agreement and Order No. 8222]
- ii. The permittee shall demonstrate compliance with emission limitations of RCSA § 22a-174-22 using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A. Sampling shall be conducted when the source is at normal operating temperature and is operating at or above ninety percent (90%) of maximum rated capacity. Notwithstanding such requirement, any source which has operated in excess of one hundred percent (100%) of its maximum rated capacity at any time since January 1, 1990 shall be tested when the source is operating at or above ninety percent (90%) of its highest operating rate since January 1, 1990. [RCSA § 22a-174-22(k)(2)]

A.2.2 Record Keeping Requirements

- i. The permittee shall maintain records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA § 22a-174-22(l)(1)(D)]
- ii. The permittee shall maintain copies of all documents submitted to the Commissioner pursuant to RCSA § 22a-174-22. [RCSA § 22a-174-22(l)(1)(E)]
- iii. The permittee shall maintain records of procedures for calculating monthly and annual NO_x emissions. [RCSA § 22a-174-22(l)(1)(G)]
- iv. The permittee shall maintain records of the dates, times, and places of all emission testing as required by RCSA § 22a-174-22, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA § 22a-174-22(l)(1)(H)]

A.2.3 Reporting Requirements

Section III: Applicable Requirements and Compliance Demonstration

- i. The permittee shall submit a written report to the Commissioner within thirty (30) days of completion of emission tests as required in § A.2.1.i of this permit. [RCSA § 22a-174-22(1)(2)]
- ii. The permittee shall retain all records and reports produced pursuant to the requirements of RCSA § 22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. Such records and reports shall be retained at the source, unless the Commissioner approves in writing the use of another location in the State. [RCSA § 22a-174-22(1)(5)]
- iii. The Permittee shall submit a report on NO_x emissions, on a form provided by the Commissioner, on or before April 15 of each year. [RCSA § 22a-174-22(1)(6)]

A.2.4 Discrete Emission Reduction Credits (DERCs)

- i. The permittee shall have in its possession approved DERCs for EUs 1.4-1.5. The permittee shall document and record the amounts of all fuel and approved DERCs used by EUs 1.4-1.5 each month. The permittee shall maintain and provide such records in accordance with RCSA § 22a-174-4 until May 1, 2003 and;
 - a. Before the first day of each month, calculate projected DERCs required for EUs 1.4-1.5 for the next calendar month as follows:

$$\text{DERCs (tons)} = (\text{Estimated Fuel Use in MMBtu} \times (\text{FLER(lb/MMBtu)} - [0.95 \times .25 \text{ lb/MMBtu}])) / 2000 \text{ pounds}$$

Where:

FLER means full load emission rate referenced in paragraph C.3 of Trading Agreement and Order 8222 [paragraph C.2.a of Trading Agreement and Order No. 8222]

- b. The permittee shall have in its possession sufficient approved DERCs no later than the first of each calendar month to assure compliance for, at a minimum, that month. Excess DERCs from previous months can be applied to subsequent months. Approved DERCs shall be acquired for EUs 1.4-1.5 until the permittee achieves compliance with the emission standard in Table III.A of this permit. [paragraph C.2.b of Trading Agreement and Order No. 8222]
- c. The permittee shall, no later than the tenth day of each month, calculate approved DERCs used in the preceding calendar month. [paragraph C.2.c of Trading Agreement and Order No. 8222]
- d. The permittee shall document and record the monthly fuel used by EUs 1.4-1.5 and the approved DERCs used. [paragraph C.2.d of Trading Agreement and Order No. 8222]

Section III: Applicable Requirements and Compliance Demonstration

- e. Notwithstanding paragraph C.2.A of Trading Agreement and Order 8222 and Section III.A.2.4.b of this permit, DERCs required shall be adjusted upwards by at least 100% if DERCs are not in the permittee's possession prior to use. However, based on the gravity of the non-compliance, the Commissioner may require additional upward adjustment. [paragraph C.2.e of Trading Agreement and Order No. 8222]
- f. The permittee shall notify the Commissioner in writing, within thirty (30) days from the date of discovery of any deficit in DERCs, and shall submit copies of supporting calculations for review and approval by the Commissioner. [paragraph C.2.f of Trading Agreement and Order No. 8222]
- g. The permittee shall, no later than March 1, 2002, 2003 and 2004, include with its annual emissions report to the Commissioner, the fuel consumed and approved DERCs used monthly for the previous calendar year. [paragraph C.2.g of Trading Agreement and Order No. 8222]
- h. The permittee shall keep records and supporting documentation as required by Trading Agreement and Order No. 8222 for a minimum of five years, commencing on the date such records are created. [paragraph C.2.h of Trading Agreement and Order No. 8222]
- i. The permittee shall keep documentation to demonstrate that DERCs used during the ozone season were generated during the ozone season. The ozone season is from May 1 through September 30 any calendar year. Generator certification of this fact shall be sufficient. [paragraph C.2.i of Trading Agreement and Order No. 8222]
- j. The permittee shall submit the records specified above to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [paragraph C.2.j of Trading Agreement and Order No. 8222]
- ii. The permittee until May 1, 2003, during operation of EU 1.4, shall not exceed 0.29 lb NO_x per MMBtu which is the allowed Full Load Emission Rate (FLER) as limited by Trading Agreement and Order No. 8222. [paragraph C.3 of Trading Agreement and Order No. 8222]
- iii. The permittee until May 1, 2003, during operation of EU 1.5, shall not exceed 0.35 lb NO_x per MMBtu which is the allowed Full Load Emission Rate (FLER) as limited by Trading Agreement and Order No. 8222. [paragraph C.3 of Trading Agreement and Order No. 8222]
- iv. The permittee no later than May 1, 2003, shall comply with the requirements of Subdivision (1) of Sub§ (d) of RCSA § 22a-174-22. However, after full program review of Trading Agreement and Order 8222 and, if determined to be appropriate, the Commissioner may grant a written extension of Trading Agreement and Order 8222. [paragraph C.4 of Trading Agreement and Order No. 8222]
- v. The FLER of 0.29 lbs/MMBtu for EU 1.4 may be adjusted upon satisfactory demonstration to the Department and written approval by the Commissioner. [paragraph C.5 of Trading Agreement and Order No. 8222]
- vi. The FLER of 0.35 lbs/MMBtu for EU 1.5 may be adjusted upon satisfactory demonstration to the Department and written approval by the Commissioner. [paragraph C.5 of Trading Agreement and Order No. 8222]
- vii. Exceedance of an established FLER shall subject the permittee to make restitution by matching the quantity of emissions ("true up") caused by the exceedance plus a 100% premium penalty. The true up in tons of DERCs shall be equal to the FLER exceedance in lbs/MMBtu, multiplied by the total heat input during the period of non-compliance divided by 2000 lbs/ton. If the period of non-compliance is not known, the time period from the completion of the last/previous Department witnessed stack test through the date compliance is achieved as approved by the Commissioner shall be used. However, based on the gravity of the noncompliance, the Commissioner may require additional upward adjustment. [paragraph C.6 of Trading Agreement and Order No. 8222]

Section III: Applicable Requirements and Compliance Demonstration

A.3 TSP (EU1.4-1.5)

A.3.1 Monitoring and Testing Requirements

- i. The Permittee shall verify emissions using the most current version of AP-42 emission factors. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. If required by the Commissioner, the Permittee shall measure TSP emissions using EPA Method 5 or other equivalent EPA approved test method. [RCSA § 22a-174-5(e)(2)]

A.3.2 Record Keeping Requirements

In accordance with § VII.F of this permit, the permittee shall make and maintain the following records for EUs 1.4-1.5 for a minimum of five (5) years, commencing on the date such records were created [RCSA § 22a-174-33(o)(2)]: The permittee shall make calculations and documentation of TSP emissions on a monthly and 12-month rolling total using emission factors from AP-42 Fifth Edition, Section 1.3, Table 1.3-1. [RCSA § 22a-174-4(c)(2)]

A.3.3 Reporting Requirements

The permittee shall submit records specified in Section A.3.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

A.4 Sulfur content (EU1.4-1.5)

A.4.1 Monitoring and Testing Requirements

The Commissioner may require the permittee to analyze for the sulfur content of liquid fuels which shall be done according to the most current American Society for Testing and Materials, Methods D 139 or D 1552 [RCSA § 22a-174-5(b)(1)]

A.4.2 Record Keeping Requirements

- i. The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]
 - a. A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
 - b. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - c. A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

A.4.3 Reporting Requirements

- i. The Commissioner may require the permittee to submit a fuel analysis, results of stack sampling, or both, prepared at the expense of the merchant or user, to ensure compliance with the limitation in Table III.A. Such information shall be submitted to the Commissioner within thirty days of request. [RCSA § 22a-174-19(a)(5)]
- ii. The permittee shall submit records specified in § A.4.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

A.5 SO_x (EU1.4-1.5)

Section III: Applicable Requirements and Compliance Demonstration

A.5.1 Record Keeping Requirements

- i. The permittee shall use monthly and annual records of fuel use as required in Section A.1.2 of this permit to determine whether the SO_x emissions in any calendar year, are in excess of the limitations in Table III.A. [RCSA § 22a-174-33(j)(1)(K)(ii)]

A.5.2 Reporting Requirements

The permittee shall submit records specified in Section A.5.1 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

B. EMISSIONS UNITS 2.3, 2.4, 2.7, 2.10

Table III.B: EMISSIONS UNIT 2.3, 2.4, 2.7, 2.10 (Emergency Diesel Generators)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	# 2 Fuel Oil	No more than 1450 pounds ¹ per hour and 49,250 gallons per year. (EUs 2.3-2.4) No more than 1223 pounds ² per hour and 14,199 gallons per year. (EU 2.7)	Permit 199-0055 (EU 2.3) Permit 199-0056 (EU 2.4) Permit 199-0017 (EU 2.7)	B.1
SOS-1	NO _x	No more than 8.0 grams per brake horsepower	RCSA § 22a-174-22(e); Connecticut Trading Agreement and Order No. 8221	B.2
SOS-1	TSP	No more than 3.0 pounds per hour and 0.34 tons per year (EUs 2.3-2.4) No more than 2.5 pounds per hour and 0.10 tons per year (EUs 2.7)	Permit 199-0055 (EU 2.3) Permit 199-0056 (EU 2.4) Permit 199-0017 (EU 2.7)	B.3
SOS-1	Sulfur content	No more than 0.3 % sulfur content (dry basis)	Connecticut General Statutes § 16a-21a	B.4

¹ Calculated fuel consumption at a nominal 2750kW generator load . During infrequent high-load (up to 3050 kW) testing related to nuclear regulatory commission guidelines for emergency generator testing, the fuel consumption may rise to as much as 1600 pounds per hour. Generator load levels are used to verify hourly fuel use.

² Calculated fuel consumption at a nominal 2360kW generator load . During infrequent high-load (up to 2574 kW) testing related to nuclear regulatory commission guidelines for emergency generator testing, the fuel consumption may rise to as much as 1269 pounds per hour. Generator load levels are used to verify hourly fuel use.

Section III: Applicable Requirements and Compliance Demonstration

B.1 Number 2 Fuel Oil (EUs 2.3, 2.4, 2.7)

B.1.1 Monitoring and Testing Requirements

- i. The permittee shall verify Number 2 Fuel Oil usage for EUs 2.3 and 2.4. When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the permittee shall use a fuel flow monitor or non-resettable runtime hour meter. If non-resettable runtime hour meter is used, calculate fuel usage at 215 gallons per hour multiplied by the number of indicated operating hours. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall verify Number 2 Fuel Oil usage for EU 2.7. When more than one fuel supply tank is used to service this source or when multiple sources are supplied by one fuel tank, the permittee shall use a fuel flow monitor or non-resettable runtime hour meter. If non-resettable runtime hour meter is used, calculate fuel usage at 177.8 gallons per hour multiplied by the number of indicated operating hours. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- iii. The permittee shall base annual fuel consumption of EUs 2.3, 2.4, 2.7 on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. The Permittee shall make this calculation monthly. [RCSA § 22a-174-33(j)(1)(K)(ii)]

B.1.2 Record Keeping Requirements

The following records shall be maintained by the permittee:

- i. Monthly and annual fuel usage for EUs 2.3, 2.4, 2.7. [§ VII.F of this permit]
- ii. The annual fuel usage shall be based on any consecutive twelve (12) month time period and shall be calculated by adding the current month's fuel usage to that of the previous eleven (11) months. [Section VII.F of this permit]

The permittee shall make and keep records as described, for a minimum of (5) years commencing on the date such records were created. [Section VII.F of this permit]

B.1.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

B.2 NOx (EUs 2.3, 2.4, 2.7, 2.10)

B.2.1 Monitoring and Testing Requirements

- i. The permittee shall conduct emissions tests at least once every five years. Such tests shall be conducted no later than five years from the date of the last test for the subject unit or no later than five years from the date the last test for the subject unit should have been conducted, whichever is earlier. Compliance with the emission limitations of RCSA § 22a-174-22 shall be determined based on the average of three (3) one-hour tests, each performed over a consecutive 60-minute period and performed in accordance with RCSA § 22a-174-5. [RCSA § 22a-174-22(k)(1) and paragraph C.7 of Trading Agreement and Order No. 8221]
- ii. The permittee shall demonstrate compliance with emission limitations of RCSA § 22a-174-22 using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A. Notwithstanding limited high-load testing conducted in conformance to nuclear regulatory commission guidelines and the increased fuel consumption associated with it, sampling shall be conducted when the source is at

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normal operating temperature and is operating at or above ninety percent (90%) of the maximum capacity in its normal operating range as indicated below.

- iii. Any of these sources, which exceeds, during normal operations, rated capacities listed below, shall be tested when the source is operating at or above ninety percent (90%) of its highest operating rate (excepting the NRC-related testing noted above) since January 1, 1990. [RCSA § 22a-174-22(k)(2)]
- iv. For the purpose of testing under this section, “maximum capacity in its normal operating range” shall be defined as follows:
 - EU 2.3 – 2750kW± nominal instrument error
 - EU 2.4 – 2750kW± nominal instrument error
 - EU 2.7 – 2360kW± nominal instrument error
 - EU 2.10 – 410kW± nominal instrument error

B.2.2 Record Keeping Requirements

- i. The permittee shall maintain records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA § 22a-174-22(l)(1)(D)]
- ii. The permittee shall maintain copies of all documents submitted to the Commissioner pursuant to RCSA § 22a-174-22. [RCSA § 22a-174-22(l)(1)(E)]
- iii. The permittee shall maintain records of procedures for calculating monthly and annual NO_x emissions. [RCSA § 22a-174-22(l)(1)(G)]
- iv. The permittee shall maintain records of the dates, times, and places of all emission testing as required by RCSA § 22a-174-22, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA § 22a-174-22(l)(1)(H)]

B.2.3 Reporting Requirements

- i. The permittee shall submit a written report to the Commissioner within thirty (30) days of completion of emission tests as required in Section B.2.1.i of this permit. [RCSA § 22a-174-22(l)(2)]
- ii. The permittee shall retain all records and reports produced pursuant to the requirements of RCSA § 22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. Such records and reports shall be retained at the source, unless the Commissioner approves in writing the use of another location in the State. [RCSA § 22a-174-22(l)(5)]
- iii. The Permittee shall submit a report on NO_x emissions, on a form provided by the Commissioner, on or before April 15 of each year. [RCSA § 22a-174-22(l)(6)]

B.2.4 Discrete Emission Reduction Credits (DERCs)

- i. Until May 1, 2003, the permittee shall comply during operation of EU 2.3, 2.4, 2.7, 2.10 with the full load emission rates (FLERs) listed in Table 1 of Trading Agreement and Order No. 8221. [paragraph C.2 of Trading Agreement and Order No. 8221]
- ii. The permittee shall have in its possession approved DERCs for EUs 2.3, 2.4, 2.7, 2.10. The permittee shall document and record the amounts of all fuel and approved DERCs used by EUs 2.3, 2.4, 2.7, 2.10 each day. The permittee shall maintain and provide such records in accordance with RCSA § 22a-174-4 until May 1, 2003 and;
 - a. Have in its possession sufficient approved DERCs for the current day, based on the following

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calculations:

At all times (mass calculation):

DERCs (in tons) = [actual hours operated X Hp rating X (FLER (g/Bhp-hr) – (0.95 X NO_x RACT rate (g/Bhp-hr))) X (1 pound/454g)] ÷ 2000 pounds/ton

During the ozone season only (peak day calculation):

The maximum actual excess NO_x emissions (in lbs) on any of the days projected by the Commissioner to be “moderate to unhealthy,” “unhealthy,” or “very unhealthy,” divided by 3 and then divided by 13 (with the result in tons):

DERCs (in tons) = [(Maximum excess NO_x in lbs) ÷ 3] ÷ [13 lbs/day/ton]

[paragraph C.3.a of Trading Agreement and Order No. 8221]

- b. No later than October 30 of 2002 and 2003, calculate the DERCs used in the preceding ozone season as the greater of:

1. the actual total excess emissions for the ozone season in tons, as follows:

DERCs (in tons) = [actual hours operated x Hp rating x (FLER (g/BHp-hr) – (0.95 x NO_x RACT rate (g/BHp-hr))) x (1 pound/454g)] / 2000 pounds/ton
OR

2. the maximum actual excess NO_x emissions (in lbs) on any of the days projected by the Commissioner to be “moderate to unhealthy,” “unhealthy,” or “very unhealthy,” divided by 3 and then divided by 13 (with the result in tons):

DERCs (in tons) = [(Maximum excess NO_x in lbs) ÷ 3] / [13 lbs/day/ton]

As described in Exhibit 2 of Trading Agreement and Order 8221, to the extent that DERCs used to offset on peak day basis (method ii) exceed the total mass excess emissions (method i), remaining DERCs may be used in the non-ozone season in the same or subsequent years until May 1, 2003; [paragraph C.3.b of Trading Agreement and Order No. 8221]

- c. No later than January 31, 2003 and 2004, calculate DERCs used for non-ozone season months in the previous calendar year, as follows:
DERCs (in tons) = [actual hours operated x Hp rating x (FLER (g/BHp-hr) – (0.95 x NO_x RACT rate (g/BHp-hr))) x (1 pound/454g)] ÷ 2000 pounds/ton; [paragraph C.3.c of Trading Agreement and Order No. 8221]
- d. Adjust upwards by 100% the DERCs required if DERCs are not in DNC’s possession prior to use. However, based on the gravity of the noncompliance, the Commissioner may require additional upward adjustment; [paragraph C.3.d of Trading Agreement and Order No. 8221]
- e. Document and record daily fuel use and fuel type, excess NO_x emissions and, during the ozone season, the daily ozone classification as forecasted by the Commissioner on the previous day; [paragraph C.3.e of Trading Agreement and Order No. 8221]
- f. DNC shall notify the Commissioner in writing, within thirty (30) days from the date of discovery of any deficit in DERCs, and shall submit copies of supporting calculations for review and approval by the Commissioner; [paragraph C.3.f of Trading Agreement and Order No. 8221]
- g. No later than March 1, 2003 and 2004, include with its annual emissions report to the Commissioner, DERCs used (calculated as described in Sections C.3.b. and C.3.c. of Trading Agreement and Order 8221), by ozone and non-ozone seasons, for the previous calendar year; [paragraph C.3.g of Trading Agreement and Order No. 8221]

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- h. Retain records and supporting documentation as described in Trading Agreement and Order No. 8221 for a minimum of five years, commencing on the date such records are created; [paragraph C.3.h of Trading Agreement and Order No. 8221]
- i. Maintain documentation to attest to the fact that DERCs used during the ozone season were generated during the ozone season. Generator certification of this fact shall be sufficient; [paragraph C.3.i of Trading Agreement and Order No. 8221]
- j. Provide the records specified above to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. [paragraph C.3.j of Trading Agreement and Order No. 8221]
- iii. No later than May 1, 2003, DNC shall comply with the requirements of Subdivision (1) of Subsection (d) of Section 22a-174-22 of the Regulations. However, after full program review of Trading Agreement and Order 8221 and, if determined to be appropriate, the Commissioner may grant a written extension of Trading Agreement and Order 8221. [paragraph C.4 of Trading Agreement and Order No. 8221]
- iv. The FLER may be adjusted upon satisfactory demonstration to the Department and written approval by the Commissioner.; [paragraph C.5 of Trading Agreement and Order No. 8221]
- v. Exceedance of an established FLER shall subject DNC to make restitution by matching the quantity of emissions (“true up”) caused by the exceedance plus a 100% premium penalty. The true up in tons of DERCs shall be equal to the FLER exceedance in Lbs/MMBtu, multiplied by the total heat input during the period of non-compliance divided by 2000 lbs/ton. If the period of non-compliance is not known, the time period from the completion of the last/previous Department witnessed stack test through the date compliance is achieved as approved by the Commissioner shall be used. However, based on the gravity of the noncompliance, the Commissioner may require additional upward adjustment. [paragraph C.6 of Trading Agreement and Order No. 8221]

B.3 TSP (EUs 2.3, 2.4, 2.7)

B.3.1 Monitoring and Testing Requirements

- i. The Permittee shall calculate particulate emissions using AP-42 emission factors for reciprocating diesel engines greater than 600 horsepower. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. Annual emissions shall be verified by the permittee, by adding the current month’s emissions (in tons per month) to the previous eleven (11) months’ emissions. [RCSA §22a-174-33(j)(1)(K)(2)]

B.3.2 Record Keeping Requirements

The permittee shall maintain monthly TSP emissions (in tons per month) and a rolling 12-month TSP (in tons per year) emissions summary. [Section VII.F of this permit]

B.3.3 Reporting Requirements

The permittee shall submit records specified in Section B.3.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

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B.4 Sulfur content (EUs 2.3, 2.4, 2.7, 2.10)

B.4.1 Monitoring and Testing Requirements

The Commissioner may require the permittee to analyze for the sulfur content of liquid fuels which shall be done according to the most current American Society for Testing and Materials, Methods D 139 or D 1552 [RCSA § 22a-174-5(b)(1)]

B.4.2 Record Keeping Requirements

The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]

- a. A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
- b. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- c. A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

B.4.3 Reporting Requirements

- i. The Commissioner may require the permittee to submit a fuel analysis prepared at the expense of the merchant or user, to ensure compliance with the limitation in Table III.C. Such information shall be submitted to the Commissioner within thirty days of request. [RCSA § 22a-174-19(a)(5)]
- ii. The permittee shall submit records specified in Section B.4.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

C. EMISSIONS UNITS 2.5, 2.6

Table III.C: EMISSIONS UNIT 2.5, 2.6 (Emergency Diesel Colt PC2 (A & B) generators)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	# 2 Fuel Oil	No more than 2608 pounds ¹ per hour each and 150,000 gallons per year each for EUs 2.5 and 2.6.	Permit 199-0009 Permit 199-0010	C.1
SOS-1	NOx	No more than 8.0 grams per brake horsepower	RSCA § 22a-174-22(e); Connecticut Trading Agreement and Order No. 8221A	C.2

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Table III.C: EMISSIONS UNIT 2.5, 2.6 (Emergency Diesel Colt PC2 (A & B) generators)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	TSP	No more than 0.10 pounds per million Btu	RCSA § 22a-174-18(d)(1)	C.3
SOS-1	Sulfur content	No more than 0.3 % sulfur content (dry basis)	Connecticut General Statutes § 16a-21a	C.4
SOS-1	SO _x	No more than 4.4 tons per year	Permit 199-0009 Permit 199-0010	C.5

¹ Calculated fuel consumption at a nominal 5000kW generator load. During infrequent high-load (up to 5500 kW) testing related to nuclear regulatory commission guidelines for emergency generator testing, the fuel consumption may rise to as much as 2871 pounds per hour. Generator load levels are used to verify hourly fuel use.

C.1 Number 2 Fuel Oil (EUs 2.5, 2.6)

C.1.1 Monitoring and Testing Requirements

The permittee shall verify Number 2 Fuel Oil usage for EUs 2.5, 2.6. When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the permittee shall use a fuel flow monitor or non-resettable runtime hour meter. If non-resettable runtime hour meter is used, calculate fuel usage at 380 gallons per hour multiplied by the number of indicated operating hours. The permittee shall base annual fuel consumption of EUs 2.5, 2.6 on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. The Permittee shall make this calculation monthly. [RCSA § 22a-174-4(a)(1)]

C.1.2 Record Keeping Requirements

The following records shall be maintained by the permittee:

- i. Monthly and annual fuel usage for EUs 2.5, 2.6. [§ VII.F of this permit]
- ii. The annual fuel usage shall be based on any consecutive twelve (12) month time period and shall be calculated by adding the current month's fuel usage to that of the previous eleven (11) months. [Section VII.F of this permit]

The permittee shall make and keep records as described, for a minimum of (5) years commencing on the date such records were created. [Section VII.F of this permit]

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C.1.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit.
[Section VII.E of this permit]

C.2 NO_x (EUs 2.5, 2.6)

C.2.1 Monitoring and Testing Requirements

- i. The permittee shall conduct emissions tests at least once every five years. Such tests shall be conducted no later than five years from the date of the last test for the subject unit or no later than five years from the date the last test for the subject unit should have been conducted, whichever is earlier. Compliance with the emission limitations of RCSA § 22a-174-22 shall be determined based on the average of three (3) one-hour tests, each performed over a consecutive 60-minute period and performed in accordance with RCSA § 22a-174-5. [RCSA § 22a-174-22(k)(1) and paragraph C.7 of Trading Agreement and Order No. 8221A]
- ii. The permittee shall demonstrate compliance with emission limitations of RCSA § 22a-174-22 using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A. Notwithstanding limited high-load testing conducted in conformance to Nuclear Regulatory Commission requirements and the increased fuel consumption associated with it, sampling shall be conducted when the source is at normal operating temperature and is operating at or above ninety percent (90%) of the maximum capacity in its normal operating range as indicated below.
- iii. Any of these sources, which exceeds, during normal operations (normal load range testing) and based on the rated capacities listed below, shall be tested when the source is operating at or above ninety percent (90%) of its highest operating rate (excepting the NRC-related testing noted above) since January 1, 1990. [RCSA § 22a-174-22(k)(2)]
- iv. For the purpose of testing under this section, “Maximum capacity in its normal operating range” shall be defined as follows:
EU 2.5 –5000kW ±nominal instrument error
EU 2.6 –5000kW ±nominal instrument error

C.2.2 Record Keeping Requirements

- i. The permittee shall maintain records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA § 22a-174-22(l)(1)(D)]
- ii. The permittee shall maintain copies of all documents submitted to the Commissioner pursuant to RCSA § 22a-174-22. [RCSA § 22a-174-22(l)(1)(E)]
- iii. The permittee shall maintain records of procedures for calculating monthly and annual NO_x emissions. [RCSA § 22a-174-22(l)(1)(G)]
- iv. The permittee shall maintain records of the dates, times, and places of all emission testing as required by RCSA § 22a-174-22, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA § 22a-174-22(l)(1)(H)]

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C.2.3 Reporting Requirements

- i. The permittee shall submit a written report to the Commissioner within thirty (30) days of completion of emission tests as required in Section C.2.1.i of this permit. [RCSA § 22a-174-22(l)(2)]
- ii. The permittee shall retain all records and reports produced pursuant to the requirements of RCSA § 22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the Commissioner or the Administrator. Such records and reports shall be retained at the source, unless the Commissioner approves in writing the use of another location in the State. [RCSA § 22a-174-22(l)(5)]
- iii. The Permittee shall submit a report on NO_x emissions, on a form provided by the Commissioner, on or before April 15 of each year. [RCSA § 22a-174-22(l)(6)]

C.3 TSP (EUs 2.5, 2.6)

C.3.1 Monitoring and Testing Requirements

- i. The Permittee shall calculate particulate emissions using AP-42 emission factors for reciprocating diesel engines greater than 600 horsepower. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. Annual emissions shall be verified by the permittee, by adding the current month's emissions (in tons per month) to the previous eleven (11) months' emissions. [RCSA § 22a-174-33(j)(1)(K)(2)]

C.3.2 Record Keeping Requirements

The permittee shall maintain monthly TSP emissions (in tons per month) and a rolling 12-month TSP (in tons per year) emissions summary. [Section VII.F of this permit]

C.3.3 Reporting Requirements

The permittee shall submit records specified in Section C.3.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

C.4 Sulfur content (EUs 2.5, 2.6)

C.4.1 Monitoring and Testing Requirements

The Commissioner may require the permittee to analyze for the sulfur content of liquid fuels which shall be done according to the most current American Society for Testing and Materials, Methods D 139 or D 1552 [RCSA § 22a-174-5(b)(1)]

C.4.2 Record Keeping Requirements

- i. The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]

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- a. A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
- b. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- c. A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

C.4.3 Reporting Requirements

- i. The Commissioner may require the permittee to submit a fuel analysis, results of stack sampling, or both, prepared at the expense of the merchant or user, to ensure compliance with the limitation in Table III.C. Such information shall be submitted to the Commissioner within thirty days of request. [RCSA § 22a-174-19(a)(5)]
- ii. The permittee shall submit records specified in Section C.4.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

C.5 SO_x (EUs 2.5, 2.6)

C.5.1 Record Keeping Requirements

The permittee shall use monthly and annual records of fuel use as required in Section C.1.2 of this permit to determine whether the SO_x emissions in any calendar year, are in excess of the limitations in Table III.C [RCSA §22a-174-33(j)(1)(K)(ii)]

C.5.2 Reporting Requirements

The permittee shall submit records specified in Section C.5.1 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

D. EMISSION UNIT 2.8 (EU 2.8)

Table III.D: EMISSION UNIT 2.8 (Volvo Generator for Unit 1 Spent Fuel Pool)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Condition Number
SOS-1	Hours of Operation	No more than 500 hours per any twelve (12) month rolling aggregate	RCSA 22a-174-3b(e)(2)(A)	D.1
SOS-1	Sulfur content	Any nongaseous fuel consumed by the subject emission unit shall not exceed a sulfur content of 0.3% by weight (dry basis).	RCSA 22a-174-3b(e)(2)(B)	D.2

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D.1 Hours of Operation (EU 2.8)

D.1.1 Record Keeping Requirements

The permittee shall maintain records of the hours of operation for each month and each twelve (12) month rolling aggregate for a minimum of five (5) years commencing on the date such records were created. [RCSA 22a-174-3b(e)(4)]

D.1.2 Reporting Requirements

The permittee shall submit records specified in Section D.1.1 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

D.2 Sulfur content (EU 2.8)

D.2.1 Record Keeping Requirements

The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]

- A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
- A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

D.2.2 Reporting Requirements

The permittee shall submit records specified in Section D.2.1 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

E. EMISSIONS UNITS 2.11-2.13, GROUPED EMISSIONS UNIT 3.6

Table III.E: EMISSIONS UNIT 2.11-2.13, GROUPED EMISSIONS UNIT 3.6 (Emergency Fire Pump, Emergency Engine for Meteorological Tower, Cummins “EOF” Engine and Numerous Small Compressors Generators)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	TSP	No more than 0.20 pounds per million Btu	RCSA § 22a-174-18(d)(1)	E.1
SOS-1	Sulfur content	No more than 0.3 % sulfur content (dry basis)	Connecticut General Statutes § 16a-21a	E.2

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E.1 TSP (EUs 2.11-2.13, GEU 3.6)

E.1.1 Monitoring and Testing Requirements

- i. The Permittee shall verify emissions using the most current version of AP-42 emission factors. [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. If required by the Commissioner, the Permittee shall measure TSP emissions using EPA Method 5 or other equivalent EPA approved test method. [RCSA § 22a-174-5(e)(2)]

E.1.2 Record Keeping Requirements

- i. In accordance with Section VII.F of this permit, the permittee shall make and maintain the following records for EUs 2.11-2.13, and GEU 3.6 for a minimum of five (5) years, commencing on the date such records were created [RCSA § 22a-174-33(o)(2)]
- ii. The permittee shall make annual calculations and documentation of TSP emissions using emission factors from AP-42 Fifth Edition, Section 3.3, Table 3.3-1. [RCSA § 22a-174-4(c)(2)]

E.1.3 Reporting Requirements

The permittee shall submit records specified in Section E.1.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

E.2 Sulfur content (EUs 2.11-2.13, GEU 3.6)

E.2.1 Monitoring and Testing Requirements

The Commissioner may require the permittee to analyze for the sulfur content of liquid fuels which shall be done according to the most current American Society for Testing and Materials, Methods D 139 or D 1552 [RCSA § 22a-174-5(b)(1)]

E.2.2 Record Keeping Requirements

The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]

- a. A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
- b. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- c. A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

E.2.3 Reporting Requirements

The permittee shall submit records specified in Section E.2.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

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F. EMISSIONS UNITS 2.14-2.15, 5.1

Table III.F: EMISSIONS UNIT 2.14-2.15, 5.1 (Fire Mock up Facility and Two Fire School Water-pumps)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	Propane	No more than 1036 gallons per hour and 272,000 gallons per year for the Fire Mock-up Facility.	Permit 199-0043	F.1
		No more than 5 gallons per hour each and 5,000 gallons per year for each Water Pump.	Permit 199-0043	
SOS-1	TSP	No more than 0.10 pounds per million Btu	RCSA § 22a-174-18(d)(1)	F.2
		No more than 0.06 pounds per hour for both water pumps and no more than 0.05 pounds per hour for the fire mock-up facility; No more than 0.02 tons per year for both water pumps and no more than 0.05 tons per year for the mock-up facility	Permit 199-0043	
SOS-1	PM-10	No more than 0.06 pounds per hour for both water pumps and no more than 0.05 pounds per hour for the fire mock-up facility; No more than 0.02 tons per year for both water pumps and no more than 0.05 tons per year for the mock-up facility	Permit 199-0043	F.3

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Table III.F: EMISSIONS UNIT 2.14-2.15, 5.1 (Fire Mock up Facility and Two Fire School Water-pumps)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	SO _x	No more than 0.04 pounds per hour for both water pumps and no more than 0.002 pounds per hour for the fire mock-up facility; No more than 0.002 tons per year for both water pumps and no more than 0.002 tons per year for the mock-up facility	Permit 199-0043	F.4
SOS-1	NO _x	No more than 1.40 pounds per hour for both water pumps and no more than 1.91 pounds per hour for the fire mock-up facility; No more than 0.70 tons per year for both water pumps and no more than 1.91 tons per year for the mock-up facility	Permit 199-0043	F.5
SOS-1	VOC	No more than 0.84 pounds per hour for both water pumps and no more than 0.07 pounds per hour for the fire mock-up facility; No more than 0.42 tons per year for both water pumps and no more than 0.07 tons per year for the mock-up facility	Permit 199-0043	F.6
SOS-1	CO	No more than 1.30 pounds per hour for both water pumps and no more than 0.26 pounds per hour for the fire mock-up facility; No more than 0.64 tons per year for both water pumps and no more than 0.26 tons per year for the mock-up facility	Permit 199-0043	F.7

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F.1 Propane (EUs 2.14-2.15, 5.1)

F.1.1 Monitoring and Testing Requirements

The permittee shall verify propane usage for EUs 2.14-2.15, 5.1 with a fuel flow monitor, monthly. The permittee shall base annual fuel consumption of EUs 2.14-2.15, 5.1 on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. The Permittee shall make this calculation monthly. [Part IV.1 of Permit 199-0043]

F.1.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual fuel usage for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.1.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

F.2 TSP (EUs 2.14-2.15, 5.1)

F.2.1 Monitoring and Testing Requirements

- i. The permittee shall calculate particulate emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the particulate emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual particulate emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.2.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual particulate emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.2.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

F.3 PM-10 (EUs 2.14-2.15, 5.1)

F.3.1 Monitoring and Testing Requirements

- i. The permittee shall calculate PM-10 emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the PM-10 emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual PM-10 emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.3.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual PM-10 emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.3.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

F.4 SOx (EUs 2.14-2.15, 5.1)

F.4.1 Monitoring and Testing Requirements

- i. The permittee shall calculate SOx emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the SOx emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual SOx emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.4.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual SOx emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.4.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

F.5 NO_x (EUs 2.14-2.15, 5.1)

F.5.1 Monitoring and Testing Requirements

- i. The permittee shall calculate NO_x emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the NO_x emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual NO_x emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.5.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual NO_x emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.5.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

F.6 VOC (EUs 2.14-2.15, 5.1)

F.6.1 Monitoring and Testing Requirements

- i. The permittee shall calculate VOC emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the VOC emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual VOC emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.6.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual VOC emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.6.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

F.7 CO (EUs 2.14-2.15, 5.1)

F.7.1 Monitoring and Testing Requirements

- i. The permittee shall calculate CO emissions using the latest AP-42 emission factors. The permittee shall determine compliance with the CO emission limitation by using the information required in Section III.F.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual CO emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

F.7.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual CO emissions for EUs 2.14-2.15, 5.1. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

F.7.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

G EMISSIONS UNITS 2.16, 3.1, 3.2, 3.5

Table III.G: EMISSIONS UNIT 2.16, 3.1, 3.2, 3.5 (Small diesel fired engines)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
SOS-1	Diesel	No more than 4 gallons per hour and 2,500 gallons per year for EU 2.16.	Permit 199-0044	G.1
		No more than 4.2 gallons per hour and 3,000 gallons per year for EU 3.1.	Permit 199-0045	
		No more than 3.5 gallons per hour and 4,500 gallons per year for EU 3.2.	Permit 199-0046	
		No more than 2.3 gallons per hour and 1,150 gallons per year for EU 3.5.	Permit 199-0053	
SOS-1	TSP	No more than 0.10 pounds per million Btu	RCSA § 22a-174-18(d)(1)	G.2
		No more than 0.17 pounds per hour and no more than 0.05 tons per year (EU 2.16)	Permit 199-0044	
		No more than 0.18 pounds per hour and no more than 0.07 tons per year (EU 3.1)	Permit 199-0045	
		No more than 0.15 pounds per hour and no more than 0.10 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.013 pounds per hour and no more than 0.003 tons per year for EU 3.5	Permit 199-0053	
SOS-1	PM-10	No more than 0.17 pounds per hour and no more than 0.05 tons per year (EU 2.16)	Permit 199-0044	G.3

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: EMISSIONS UNIT 2.16, 3.1, 3.2, 3.5 (Small diesel fired engines)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
		No more than 0.18 pounds per hour and no more than 0.07 tons per year (EU 3.1)	Permit 199-0045	
		No more than 0.15 pounds per hour and no more than 0.10 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.013 pounds per hour and no more than 0.003 tons per year for EU 3.5	Permit 199-0053	
SOS-1	Sulfur Content	No more than 0.3 % sulfur content (dry basis)	Connecticut General Statutes § 16a-21a	G.4
SOS-1	SOx	No more than 0.12 pounds per hour and no more than 0.04 tons per year (EU 2.16)	Permit 199-0044	G.5
		No more than 0.13 pounds per hour and no more than 0.05 tons per year (EU 3.1)	Permit 199-0045	
		No more than 0.11 pounds per hour and no more than 0.07 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.015 pounds per hour and no more than 0.004 tons per year for EU 3.5	Permit 199-0053	
SOS-1	NOx	No more than 2.47 pounds per hour and no more than 0.77 tons per year (EU 2.16)	Permit 199-0044	G.6
		No more than 2.59 pounds per hour and no more than 0.93 tons per year (EU 3.1)	Permit 199-0045	

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: EMISSIONS UNIT 2.16, 3.1, 3.2, 3.5 (Small diesel fired engines)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
		No more than 2.16 pounds per hour and no more than 1.39 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.550 pounds per hour and no more than 0.139 tons per year for EU 3.5	Permit 199-0053	
SOS-1	VOC	No more than .20 pounds per hour and no more than 0.06 tons per year (EU 2.16)	Permit 199-0044	G.7
		No more than .21 pounds per hour and no more than 0.08 tons per year (EU 3.1)	Permit 199-0045	
		No more than .18 pounds per hour and no more than .11 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.044 pounds per hour and no more than 0.029 tons per year for EU 3.5	Permit 199-0053	
SOS-1	CO	No more than .53 pounds per hour and no more than 0.17 tons per year (EU 2.16)	Permit 199-0044	G.8
		No more than .56 pounds per hour and no more than 0.20 tons per year (EU 3.1)	Permit 199-0045	
		No more than .47 pounds per hour and no more than .30 tons per year (EU 3.2)	Permit 199-0046	
		No more than 0.106 pounds per hour and no more than 0.027 tons per year for EU 3.5	Permit 199-0053	

Section III: Applicable Requirements and Compliance Demonstration

G.1 Diesel (EUs 2.16, 3.1, 3.2, 3.5)

G.1.1 Monitoring and Testing Requirements

The permittee shall verify diesel usage for EUs 2.16, 3.1, 3.2, 3.5 with a fuel flow monitor, monthly. The permittee shall base annual fuel consumption of EUs 2.16, 3.1, 3.2, 3.5 on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. The permittee shall make this calculation monthly. [Part IV.1 of Permit 199-0044, -0045, -0046 and -0053]

G.1.2 Record Keeping Requirements

The permittee shall make and keep records of monthly and annual fuel usage for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.1.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

G.2 TSP (EUs 2.16, 3.1, 3.2, 3.5)

G.2.1 Monitoring and Testing Requirements

- i. The permittee shall calculate particulate emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. Particulate emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the particulate emission limitation by using the information required in Section III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual particulate emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.2.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual particulate emissions for 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.2.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

G.3 PM-10 (EUs 2.16, 3.1, 3.2, 3.5)

G.3.1 Monitoring and Testing Requirements

- i. The permittee shall calculate PM-10 emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. PM-10 emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the PM-10 emission limitation by using the information required in Section III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual PM-10 emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.3.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual PM-10 emissions for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.3.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

G.4 Sulfur content (EUs 2.16, 3.1, 3.2, 3.5)

G.4.1 Monitoring and Testing Requirements

The Commissioner may require the permittee to analyze for the sulfur content of liquid fuels which shall be done according to the most current American Society for Testing and Materials, Methods D 139 or D 1552 [RCSA § 22a-174-5(b)(1)]

G.4.2 Record Keeping Requirements

The permittee shall make and keep the following records for a minimum of five (5) years commencing on the date such records were created. The permittee shall maintain, any of the following records to demonstrate compliance with the non-gaseous fuel sulfur content limitations: [RCSA § 22a-174-3b(h)]

- a. A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider; or
- b. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- c. A copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of shipment.

G.4.3 Reporting Requirements

The permittee shall submit records specified in Section G.4.2 of this permit to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA § 22a-174-4(c)(1)]

Section III: Applicable Requirements and Compliance Demonstration

G.5 SO_x (EUs 2.16, 3.1, 3.2, 3.5)

G.5.1 Monitoring and Testing Requirements

- i. The permittee shall calculate SO_x emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. SO_x emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the SO_x emission limitation by using the information required in § III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual SO_x emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.5.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual SO_x emissions for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.5.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

G.6 NO_x (EUs 2.16, 3.1, 3.2, 3.5)

G.6.1 Monitoring and Testing Requirements

- i. The permittee shall calculate NO_x emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. NO_x emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the NO_x emission limitation by using the information required in Section III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual NO_x emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.6.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual NO_x emissions for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.6.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

G.7 VOC (EUs 2.16, 3.1, 3.2, 3.5)

G.7.1 Monitoring and Testing Requirements

- i. The permittee shall calculate VOC emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. VOC emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the VOC emission limitation by using the information required in Section III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual VOC emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.7.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual VOC emissions for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.7.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

G.8 CO (EUs 2.16, 3.1, 3.2, 3.5)

G.8.1 Monitoring and Testing Requirements

- i. The permittee shall calculate CO emissions for EUs 2.16, 3.1 and 3.2 using the latest AP-42 emission factors. CO emissions from EU 3.5 may be calculated using the manufacturer's test data. The permittee shall determine compliance with the CO emission limitation by using the information required in Section III.G.1.1 of this permit and multiplying this by the emission factor [RCSA § 22a-174-33(j)(1)(K)(ii)]
- ii. The permittee shall demonstrate compliance with annual CO emissions by adding the current month's emissions to the previous eleven month's emissions. [RCSA § 22a-174-33(j)(1)(K)(ii)]

G.8.2 Record Keeping Requirements

The Permittee shall make and keep records of monthly and annual CO emissions for EUs 2.16, 3.1, 3.2, 3.5. Such records shall be kept for a minimum of five (5) years commencing on the date such records were created. [Section VII.F of this permit]

G.8.3 Reporting Requirements

The Permittee shall submit reports in accordance with the requirements of Section VII.E of this permit. [Section VII.E of this permit]

Section III: Applicable Requirements and Compliance Demonstration

H. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.H: PREMISES-WIDE GENERAL REQUIREMENTS			
Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
Opacity	Less than or equal to 20% (average of 24 consecutive observations (set) recorded at 15 second intervals, minimum of 3 sets in a 60 minute period)	RCSA § 22a-174-18(a)(1)(i)	H.1
	Less than or equal to 40% (no longer than 5 minutes (aggregated) in any 60 minute period)	RCSA § 22a-174-18(a)(1)(ii)	
Air Pollution Emergency Episode Procedures	The permittee shall comply with the procedures for emergency episodes as specified in RCSA § 22a-174-6.	RCSA § 22a-174-6	
Prohibition against Concealment/circumvention	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA 22a-174-11.	RCSA § 22a-174-11	
Public Availability of Information	The public availability of information shall apply, as specified in RCSA 22a-174-10.	RCSA § 22a-174-10	
Annual Emissions Inventory	The permittee shall submit annual emissions inventory statements to the commissioner under the authority of RCSA § 22a-174-4(c)(1), in accordance with the forms provided by the Commissioner	RCSA § 22a-174-(4)(c)(1).	
Emission Fees	The permittee shall pay an emission fee in accordance with RCSA § 22a-174-26(d).	RCSA § 22a-174-26(d).	
Open Burning	CGS § 22a-174(f) The permittee is prohibited from conducting open burning, except as may be allowed by CGS 22a-174(f).	CGS § 22a-174(f)	
Severability	Severability shall apply as specified in RCSA § 22a-174-15	RCSA § 22a-174-15.	

Section III: Applicable Requirements and Compliance Demonstration

H.1. Opacity:

H.1.1. Monitoring and Testing Requirements

Upon written request of the commissioner, the Permittee shall verify opacity using Title 40 Code of Federal Regulations Part 60, Method 9.

H.1.2. Record Keeping Requirements

In accordance with Section VII.F. of this permit, the permittee shall make and maintain the following records for a minimum of five years, commencing on the date such records were created [RCSA § 22a-174-33(o)(2)]:

Records of the dates, times, and places of all visible emission observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA § 22a-174-4(c)(1)]

H.1.3. Reporting Requirements

- i. Provide written monitoring reports to the commissioner by the 30th day following the end of each semi-annual period in accordance with Section VII.F.
- ii. Provide the records specified in Section III.H.1.2. to the commissioner within thirty days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA § 22a-174-4(c)(1)]

I. 112(r) ACCIDENTAL RELEASE REQUIREMENTS

Should this stationary source, as defined in 40 CFR § 68.3, become subject to the accidental release prevention regulations in 40 CFR Part 68, the Permittee shall submit a risk management plan (RMP) to the Administrator by the date specified in Section 68.10.

J. ASBESTOS REQUIREMENTS

Should this stationary source, as defined in 40 CFR Section 61.145, become subject to the national emission standard for asbestos regulations in subpart M of 40 CFR Part 61 when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR Section 61.145(b) and shall comply with all other applicable requirements of including but not limited to subpart M.

Section IV: Compliance Schedule

NOTE: THERE ARE NO COMPLIANCE ACTION ITEMS IN THIS PERMIT

TABLE IV: COMPLIANCE SCHEDULE				
Emissions units	Applicable regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting
N/A	N/A	N/A	N/A	N/A

N/A – Not Applicable

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this §.

- A.** This Title V permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the commissioner.
- C.** Odors: The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- D.** Noise: The permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- F.** Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The permittee shall not use No.2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- H.** Reporting of emissions of greenhouse gases: In accordance with CGS §22a-200b(b), not later than April 15, 2006, and annually thereafter, the owner or operator of any facility that is required to report air emissions data to the Department of Environmental Protection pursuant to Title V of the Clean Air Act and that has stationary emissions sources that emit greenhouse gases shall report to the regional registry direct stack emissions of greenhouse gases from such sources. The owner or operator shall report all greenhouse gas emissions in a type and format that the regional registry can accommodate.

Section VI: Permit Shield

NO PERMIT SHIELDS HAVE BEEN GRANTED

TABLE VI: PERMIT SHIELD				
Regulated Pollutants	Emissions Units	Applicable Requirement or Non-Applicable Requirement Descriptions	Applicable Regulatory References	*Applicability
N/A				

***For Applicability, use AR to indicate Applicable Requirement and NR for Non- Applicable Requirement**

Section VII: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these §§.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA § 22a-174-33(b)]

In accordance with § 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in § 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to § 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in § 22a-174-2a(a)(5) of the RCSA:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under § 22a-175 of the Connecticut General Statutes, under § 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

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1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
 - i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
 - ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
 - iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X)]

The permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, within 15 days of the date the permittee becomes aware of a change in any information submitted to the commissioner under this Title V permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the commissioner.

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A permittee, required to perform monitoring pursuant this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

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F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in this Title V permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this Title V permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the permittee to the Administrator.

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H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with § 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to § 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with §§ 22a-174-33(g), -33(h), and -33(i) of the RCSA.

K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with §§ 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in §§ 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

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M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including § 4-181a(b) of the Connecticut General Statutes and § 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

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T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to § 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in § 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]

Written notification required under § 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

V. TRANSFERS [RCSA § 22a-174-2a(g)]

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with § 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS § 22a-6m.

W. REVOCATION [RCSA § 22a-174-2a(h)]

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with § 4-182c of the Connecticut General Statutes, § 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

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Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with § 22a-174-33(r) of the RCSA, Connecticut General Statutes § 22a-174c, or § 22a-3a-5(d) of the RCSA.

X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]

This permit may be reopened by the Commissioner, or the Administrator in accordance with § 22a-174-33(s) of the RCSA.

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.